UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

# NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

01/23/2004

Katten, Muchin, Zavis & Rosenman 525 West Monroe Street Suite 1600 Chicago, IL 60661-3693 EXAMINER

ZAMANI, ALI A

ART UNIT PAPER NUMBER

2674

DATE MAILED: 01/23/2004

17

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/610 481	07/05/2000	Gerald Morrison	204694.00055	3938

TITLE OF INVENTION: PASSIVE TOUCH SYSTEM AND METHOD OF DETECTING USER INPUT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$15	\$0	\$15	04/23/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

- A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.
- B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
  - Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Complete and send this form, together with applicable fee(s), to: Mail

01/23/2004

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

(703) 746-4000 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FFF and PUBLICATION FFF (if required). Blocks 1 through 4 should be completed where

appropriate. All further correspondence including the Patent, advance orders and notifical indicated unless corrected below or directed otherwise in Block I, by (a) specifying a ne maintenance fee notifications.	tion of maintenance fees will be mailed to the current correspondence address as
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must

Katten, Muchin, Zavis & Rosenman 525 West Monroe Street **Suite 1600** Chicago, IL 60661-3693

7590

have its own certificate of mailing or transmission.

Certificate of Mailing or Transmission

States Postal Service addressed to the Mai	his Fee(s) Transmittal is bein with sufficient postage for fi il Stop ISSUE FEE address PTO, on the date indicated be	rst class mail in an envelope above, or being facsimile
		(Depositor's name)
		(Signature)
		(Date)
•	T	

AP	PLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	09/610,481	07/05/2000	Gerald Morrison	204694.00055	3938

TITLE OF INVENTION: PASSIVE TOUCH SYSTEM AND METHOD OF DETECTING USER INPUT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$15	\$0	\$15	04/23/2004
EXAM	MINER	ART UNIT	CLASS-SUBCLASS		
ZAMANI, ALI A		2674	345-173000		
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).  □ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  □ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.		2. For printing on the patent front pay names of up to 3 registered patent agents OR, alternatively, (2) the nam firm (having as a member a registere agent) and the names of up to 2 reg attorneys or agents. If no name is list will be printed.	t attorneys or 1 ne of a single ed attorney or 2 gistered patent		

3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type)

PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment.

(A) NAME OF ASSIGNEE

(B) RESIDENCE: (CITY and STATE OR COUNTRY)

Please check the appropriate assignee category or category	gories (will not be printed on the patent);	☐ individual	□ corporation or other private group entity	governmen
4a. The following fee(s) are enclosed:	4b. Payment of Fee(s):			
☐ Issue Fee	☐ A check in the ame	ount of the fee(s)	is enclosed.	
☐ Publication Fee	☐ Payment by credit	card. Form PTO-	2038 is attached.	
□ Advance Order - # of Copies	☐ The Director is he Deposit Account Nur	thereby authorized by charge the required fee(s), or credit any overpayment, the value of this form).		
Director for Patents is requested to apply the Issue Fee	and Publication Fee (if any) or to re-apply	any previously p	aid issue fee to the application identified abo	ove.
(Authorized Signature)	(Date)			
NOTE; The Issue Fee and Publication Fee (if requother than the applicant; a registered attorney or a interest as shown by the records of the United States	agent; or the assignee or other party in			
This collection of information is required by 37 CF obtain or retain a benefit by the public which is to application. Confidentiality is governed by 35 U.S.C estimated to take 12 minutes to complete, including completed application form to the USPTO. Time v case. Any comments on the amount of time you suggestions for reducing this burden, should be sen Patent and Trademark Office, U.S. Department 22313-1450. DO NOT SEND FEES OR COMPI SEND TO: Commissioner for Patents, Alexandria, V	gathering, preparing, and submitting the vill vary depending upon the individual require to complete this form and/or t to the Chief Information Officer, U.S. of Commerce, Alexandria, Virginia LETED FORMS TO THIS ADDRESS.			
Under the Paperwork Reduction Act of 1995, no	persons are required to respond to a			



# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/610,481 07/05/2000		Gerald Morrison	204694.00055	3938
7	590 01/23/2004		EXAM	NER
, ,	Zavis & Rosenman		ZAMANI	, ALI A
525 West Monroe Suite 1600	Street		ART UNIT	PAPER NUMBER
Chicago, IL 60661-3693			2674	• –1
			DATE MAILED: 01/23/2004	1 <sup>-</sup> /

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 269 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 269 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)
Nede & Allende Hide	09/610,481	MORRISON ET AL.
Notice of Allowability	Examiner	Art Unit
	Ali A. Zamani	2674
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313  1. This communication is responsive to 10-25-02.  2. The allowed claim(s) is/are 1, 4, 6, 8-9, 11-13, 16, 18-117 is 3. The drawings filed on 04 February 2003 are accepted by the 4. Acknowledgment is made of a claim for foreign priority under the second	(OR REMAINS) CLOSED in this apport of the appropriate communication GHTS. This application is subject to and MPEP 1308.  Shave been renumbered as 1-109.  The Examiner.	olication. If not included will be mailed in due course. THIS
a) All b) Some* c) None of the:		
1. Certified copies of the priority documents have		
<ul><li>2.  Certified copies of the priority documents have</li><li>3.  Copies of the certified copies of the priority doc</li></ul>	· · · —	national stage application from the
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  5.  Acknowledgment is made of a claim for domestic priority ur  (a)  The translation of the foreign language provisional a  6. Acknowledgment is made of a claim for domestic priority ur	nder 35 U.S.C. § 119(e) (to a provision	·
Applicant has THREE MONTHS FROM THE "MAILING DATE" of below. Failure to timely comply will result in ABANDONMENT of to the submitted of the su	his application. THIS THREE-MON	ITH PERIOD IS NOT EXTENDABLE.
INFORMAL PATENT APPLICATION (PTO-152) which gives reasonable to the second seco		
<ul> <li>8.  ☐ CORRECTED DRAWINGS must be submitted.</li> <li>(a) ☐ including changes required by the Notice of Draftspers</li> <li>1) ☐ hereto or 2) ☐ to Paper No. 8.</li> <li>(b) ☐ including changes required by the proposed drawing of</li> </ul>	- ,	
(c) ☐ including changes required by the proposed drawing c		· ·
Identifying indicia such as the application number (see 37 CFR 1. of each sheet. The drawings should be filed as a separate paper  9.   DEPOSIT OF and/or INFORMATION about the deposattached Examiner's comment regarding REQUIREMENT FOR TI	84(c)) should be written on the drawin with a transmittal letter addressed to t sit of BIOLOGICAL MATERIAL m	gs in the top margin (not the back) the Official Draftsperson.  nust be submitted. Note the
Attachment(s)		· · · ·
1 ☐ Notice of References Cited (PTO-892) 3 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 5 ☑ Information Disclosure Statements (PTO-1449), Paper No. 12 7 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	4☐ Interview Summa 6☐ Examiner's Amer 8⊠ Examiner's State 9☐ Other .  RIC	Patent Application (PTO-152) ry (PTO-4/3), Paper No idment(Comment ment/of/fleasons for Allowance HARD HJERPE RY PATENT EXAMINER LOGY CENTER 2600

Art Unit: 2674

### **DETAILED ACTION**

### Allowable Subject Matter

Claims 1, 4, 6, 8-9, 11-13, 16 and 18-117 are allowable over prior art of record.

The following is an examiner's statement of reasons for allowance; the prior art does not teach:

"A passive touch system comprising: a touch surface; at least two cameras associated with said touch surface, said at least two cameras acquiring images of said touch surface from different locations and having overlapping fields of view; a digital signal processor associated with each camera, the digital signal processors associated with said at least two cameras selecting pixel subsets of images acquired by said at least two cameras and processing pixel data acquired by the selected pixel substrate pointer characteristic data when a pointer exists in said acquired images; and a master digital processor in communication with said digital signal processors, said master digital signal processor receiving pointer characteristic data from said digital signal processors and triangulating the pointer characteristic data to determine the location of said pointer relative to said touch surface.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ali Zamani whose telephone number is (703) 308-6414. The examiner can normally be reached on Monday through Friday from 8:00 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe, can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Application/Control Number: 09/610,481

Art Unit: 2674

Page 3

Commissioner of Patents and Trademarks

Washington, DC 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Ali Zamani

January 20, 2004

RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600